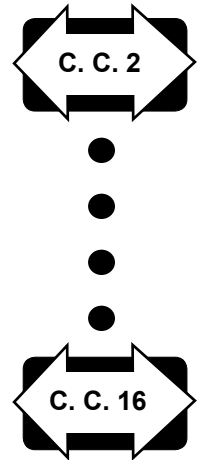


Bi-directional, One Fiber Contact Closure Transceiver 2-16 Channels



FEATURES:

- Laser Based Systems for Multimode and Singlemode Fiber
- Surface Mount Technology (SMT) for High Reliability and Repeatability
- *SpectraSmart* Network Management Compatible
- Local LED Status Indicators to Monitor Critical System Diagnostics and Performance Parameters
- ST, FC Optical Connector
- Hot Swappable Rack Cards
- Back - Biased Photo Detector Circuitry for Stable Optical Laser Output Over Full Temperature Range
- Meets NEMA TS1 / TS2 & CALTRANS Specifications
- Utilizes Internal Switching Power Supplies
- Automatically Resettable Solid-State Current Limiters on All Power Lines: Provides Equipment Protection
- DB 15 Type Connectors for Data
- Wide Optical Dynamic Range: Optical Attenuators are Never Needed

DESCRIPTION:

The DX - C / C series product incorporates a new digital encoding technology. This fiber optic system is available in different configurations ranging from minimum of 2 Channel up to maximum of 16 Channels of Bi-directional Contact closure signals over one Singlemode or Multimode fiber. Meridian's digital product line incorporates plug-in personality circuit cards to easily configure a wide variety of data channels on this system. The functionality of the DX - C / C series are further enhanced by their compatibility with Meridian's PC based *SpectraSmart* Network Management & Diagnostic Software system. *SpectraSmart* supervises the operating parameters of the transmission system such as the status on Digital carrier detect, voltages, temperatures, optical levels, Laser currents, Digital Power supply etc. See *SpectraSmart* brochure for further details.

CONFIGURATIONS:

The DX - C / C product family is available as rack mount cards suitable for mounting in Meridian card chassis and utilizes 2 card slots. These products can easily be converted to a Standalone module with the SR-1000/S, Desk / Wall mount 2-slot chassis (87- 264 VAC). See SR-1000 brochure for further details.

MARKETS:

- ✓ Security and surveillance
- ✓ Access control systems
- ✓ CCTV Networks
- ✓ IR Illuminations

SPECIFICATIONS:

Data

Formats	Contact Closure
Rate	10 Hz.(Per Channel)
Bit Error Rate	10 ⁻⁹ *

Power**

Card	5 Watts (1-4 Ch. System)
	8 Watts (16 Ch. System)

Connectors

Data	DB 15F
Optical	ST , FC
Power	See SR-1000/S Spec. Sheet

Optical

Bandwidth	250 Mb/s.
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NOTE: Standard Systems incorporates Fabry Perot Lasers

Enviromental

Operating Temperature	-34°C to +74°C
Storage Temperature	-55°C to +85°C
Relative Humidity	0 to 95% Non-condensing

Model No.

SIDE "A"

DXA-2C / 2C-2.	2 Ch. Transceiver, 1300 / 850 nm, MM
DXA-4C / 4C-2.	4 Ch. Transceiver, 1300 / 850 nm, MM
DXA-8C / 8C-2.	8 Ch. Transceiver, 1300 / 850 nm, MM
DXA-12C / 12C-2.	12 Ch. Transceiver, 1300 / 850 nm, MM
DXA-16C / 16C-2.	16 Ch. Transceiver, 1300 / 850 nm, MM
DXA-2C / 2C-5.	2 Ch. Transceiver, 1550 / 1310 nm, SM
DXA-4C / 4C-5.	4 Ch. Transceiver, 1550 / 1310 nm, SM
DXA-8C / 8C-5.	8 Ch. Transceiver, 1550 / 1310 nm, SM
DXA-12C / 12C-5.	12 Ch. Transceiver, 1550 / 1310 nm, SM
DXA-16C / 16C-5.	16 Ch. Transceiver, 1550 / 1310 nm, SM

SIDE "B"

DXB-2C / 2C-2.	2 Ch. Transceiver, 850 / 1300 nm, MM
DXB-4C / 4C-2.	4 Ch. Transceiver, 850 / 1300 nm, MM
DXB-8C / 8C-2.	8 Ch. Transceiver, 850 / 1300 nm, MM
DXB-12C / 12C-2.	12 Ch. Transceiver, 850 / 1300 nm, MM
DXB-16C / 16C-2.	16 Ch. Transceiver, 850 / 1300 nm, MM
DXB-2C / 2C-5.	2 Ch. Transceiver, 1310 / 1550 nm, SM
DXB-4C / 4C-5.	4 Ch. Transceiver, 1310 / 1550 nm, SM
DXB-8C / 8C-5.	8 Ch. Transceiver, 1310 / 1550 nm, SM
DXB-12C / 12C-5.	12 Ch. Transceiver, 1310 / 1550 nm, SM
DXB-16C / 16C-5.	16 Ch. Transceiver, 1310 / 1550 nm, SM

NOTE: ADD THE SUFFIX "D" AT THE END OF THE PART NUMBER FOR DIAGNOSTICS AND SuFFIX "F" FOR CONFORMAL COATING

Indicators (LEDs)

1 - Green	Power On
1 - Bi-color	TX Carrier/ Laser Over Current
1 - Bi-color	RX Carrier - Present / Error
1 - Bi-color	RX optical signal - Present / Absent
1 - Green	C.C Present (One Per Channel)
1 - Bi-color (Optional)	Card Diagnostics

Physical

Dimensions:	
Card	160 mm (6.3") L, 100 mm (4") W
	44mm (1.7") H
Weight:	
Card	450 g (16 oz.)
Number of Rack Slots	Two

Quality

MTBF	>200,000 hours, @ 35°C Ground
	Fix as per MIL 217F

* measured @ max. optical budget

** Due to variations of drivers and diagnostic options, power shown @ max value



OPTICAL:

Fiber Type/Size (um)	Optical Output (dBm)	Reciever Sensitivity (dBm)	Optical Budget (dB)	Wavelength (nm)	Optical Connector	Optical Dynamic Range (dB)
Multimode (FP) 62.5 / 125	-4	-24	20	850 / 1300	ST	24
Singlemode (FP) 9 / 125	-4	-24	20	1310 / 1550	ST , FC	24
Singlemode (DFB) 9 / 125	+3	-24	27	1310 / 1550	ST , FC	24